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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 09/981,729 10/19/2001 Sheng-Hung Wu MR929-706 6095 4586 7590 09/02/2004 **EXAMINER** NGO, CHUONG D ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101 ART UNIT PAPER NUMBER ELLICOTT CITY, MD 21043 2124

DATE MAILED: 09/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	$\langle 7 \rangle$
·	09/981,729	WU, SHENG-HUNG	0
Office Action Summary	Examiner	Art Unit	
	Chuong D Ngo	2124	
The MAILING DATE of this communic	cation appears on the cover sheet wi	ith the correspondence address	-
A SHORTENED STATUTORY PERIOD FOTHE MAILING DATE OF THIS COMMUNION. Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30). If NO period for reply is specified above, the maximum states a Failure to reply within the set or extended period for reply within the set or extended period	CATION. If 37 CFR 1.136(a). In no event, however, may a reinication. If ays, a reply within the statutory minimum of thire utory period will apply and will expire SIX (6) MON will by statute cause the application to become At	reply be timely filed ty (30) days will be considered timely. ITHS from the mailing date of this communica BANDONED (35 U.S.C. § 133).	ition.
Status			
1) Responsive to communication(s) filed			
	b)⊠ This action is non-final.		
3) ☐ Since this application is in condition f			s is
closed in accordance with the practic	e under <i>Ex parte Quayle</i> , 1935 C.E	D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-8 is/are pending in the ap	plication.		
4a) Of the above claim(s) is/ar	e withdrawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-8</u> is/are rejected.			
7) Claim(s) is/are objected to.		•	
8) Claim(s) are subject to restric	tion and/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the			
10)⊠ The drawing(s) filed on <u>19 October 2</u>	<u>001</u> is/are: a)⊡ accepted or b)⊡ o	objected to by the Examiner.	
Applicant may not request that any object			
Replacement drawing sheet(s) including			
11) The oath or declaration is objected to	by the Examiner. Note the attache	ed Office Action or form PTO-152	۷.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim	for foreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
a)⊠ All b)⊡ Some * c)⊡ None of:			
1. Certified copies of the priority	documents have been received.		
2. Certified copies of the priority			
3. Copies of the certified copies		n received in this National Stage	:
	nal Bureau (PCT Rule 17.2(a)).		
* See the attached detailed Office action	n for a list of the certified copies no	t received.	
Attachment(s)			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🗍 Interview	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (F	PTO-948) Paper No	o(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date	PTO/SB/08) 5) Notice of 6) Other:	Informal Patent Application (PTO-152)	

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Art Unit: 2124

DETAILED ACTION

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 1-8 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claim 1-8 clearly recite a computer-related method for implementing a mathematical algorithm to compute a square root of a long-bit numbers. In order for such a claimed computer-related process to be statutory, the claims must includes either a step that results in a physical transformation outside the computer or a limitation to a practical application, or requires a specific computer to implementing the claimed process. However, it is clear from claims 1-8 that the claims merely recite steps of data manipulation and computation. The input is a number and output is also a number. The claim fails to recite any step that results in a physical transformation outside the computer or a limitation to a practical application, or that requires a specific computer to implementing the claimed process. The recitation using a short-bit processor" in the preamble is a mere intended field of use, and does not requires a specific computer, and thus fails to render the invention statutory. Accordingly, claims 1-8 are clearly directed to a non-statutory subject matter.

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2. The prior art made of record and not relied upon is considered pertinent to applicant's

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disclosure.

3. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764.

The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status information for

unpublished applications is available through Private PAIR only. For more information about

the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

Chuong D Ngo'

Primary Examiner

Art Unit 2124